

4.2.A. 0513020601.

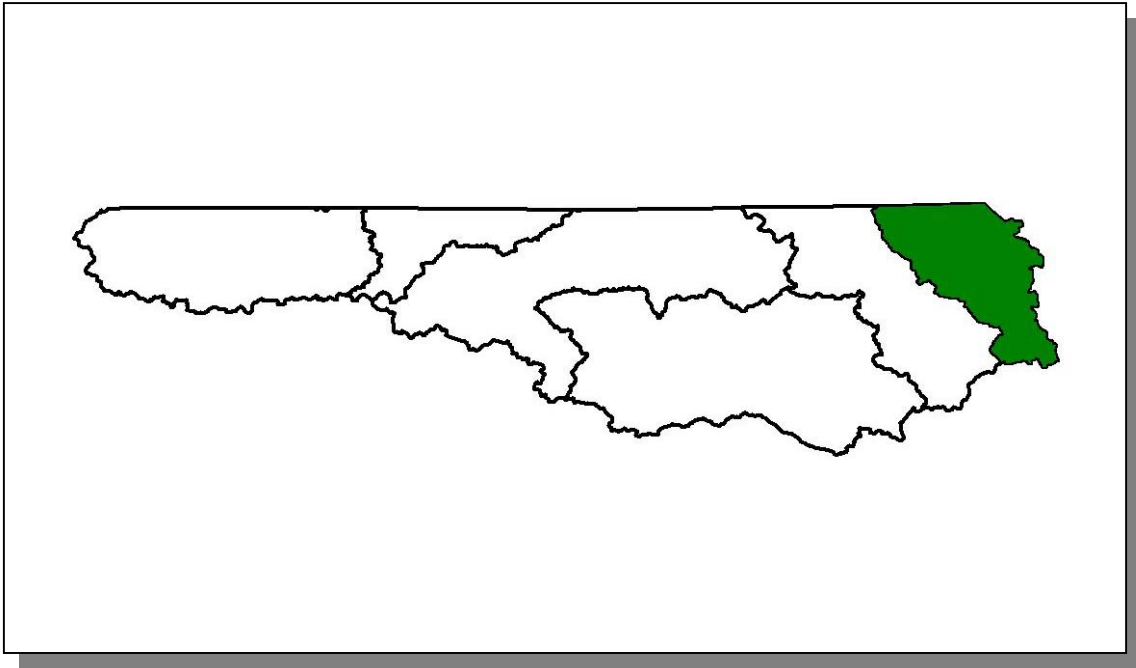


Figure 4-2. Location of Subwatershed 0513020601. All Red River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.A.i. 051302060101 (Red River).

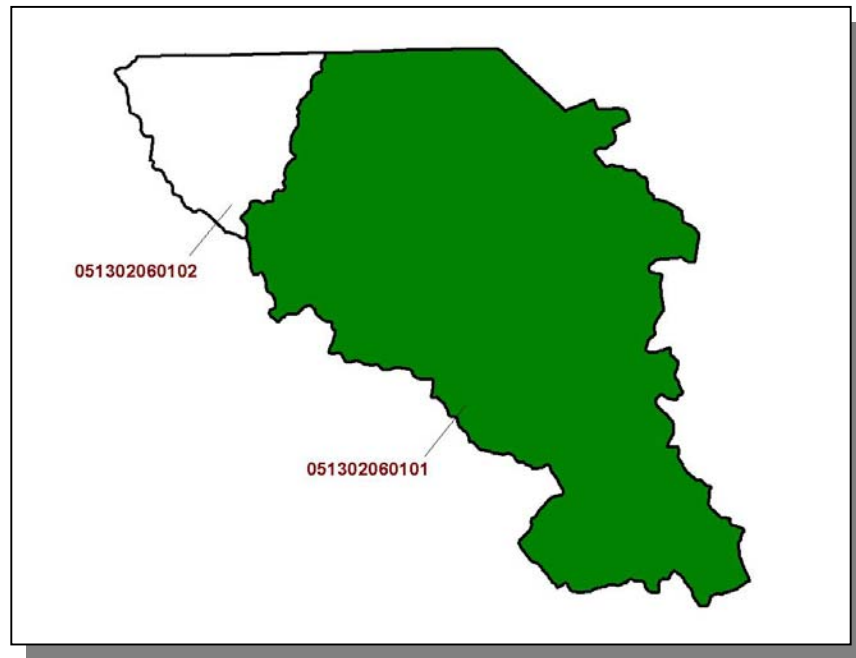


Figure 4-3. Location of Subwatershed 051302060101. All Red River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

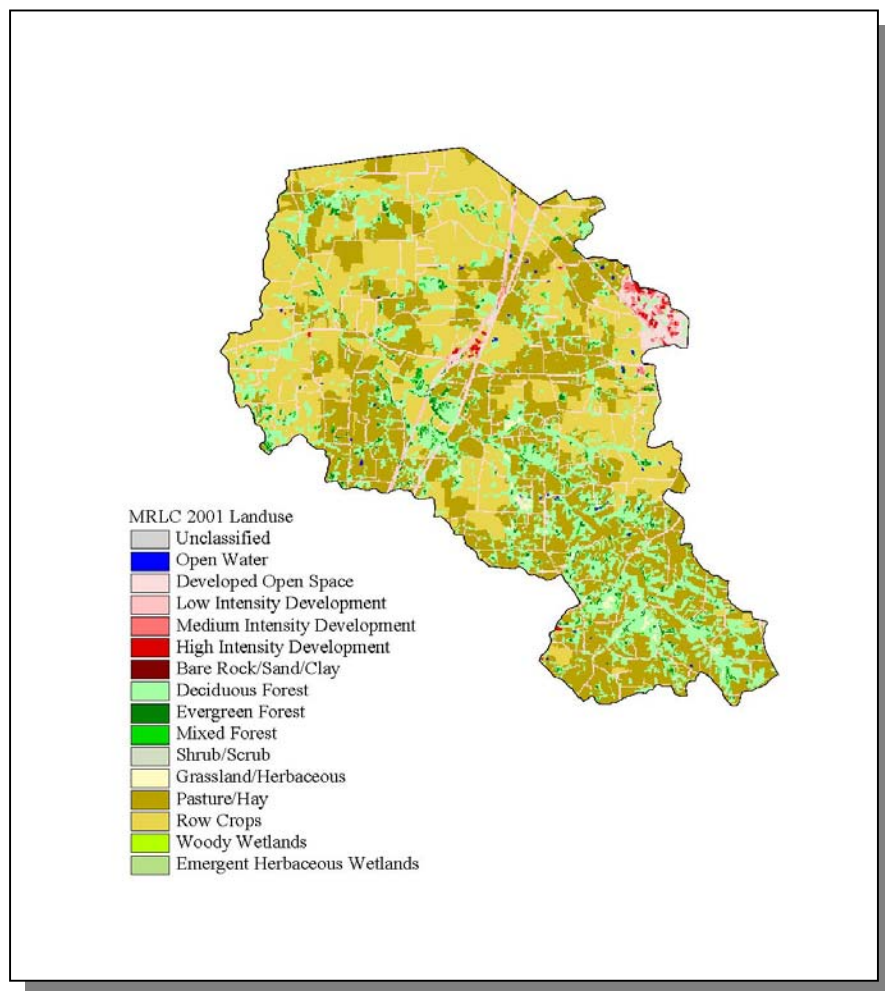


Figure 4-4. Illustration of Land Use Distribution in Subwatershed 051302060101.

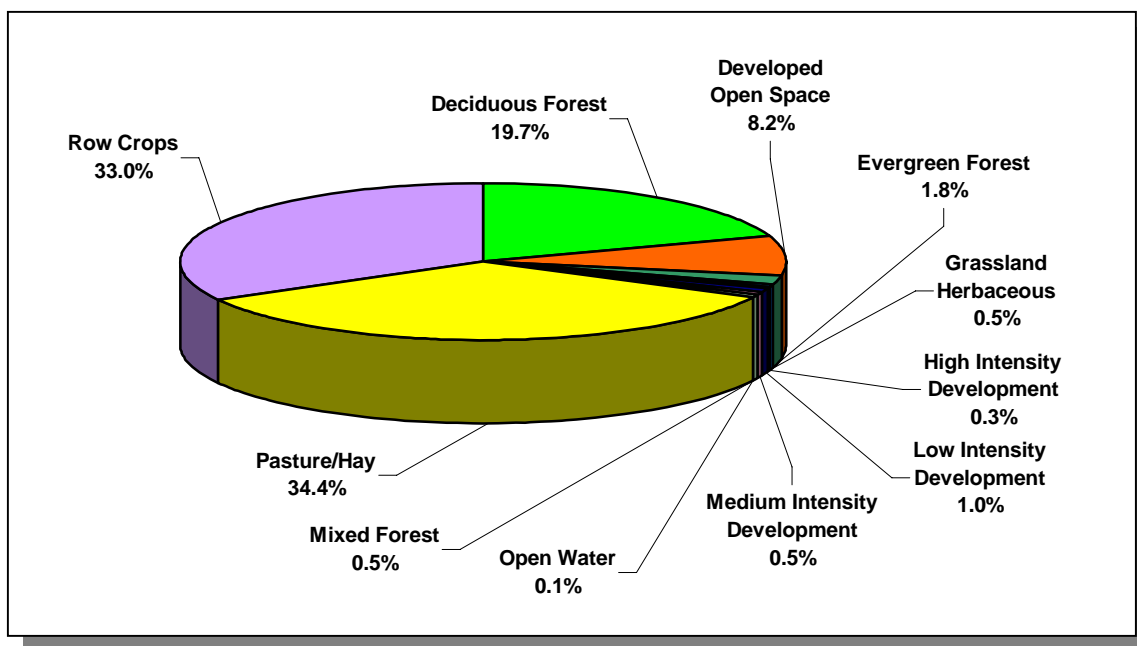


Figure 4-5. Land Use Distribution in Subwatershed 051302060101. More information is provided in Appendix IV.

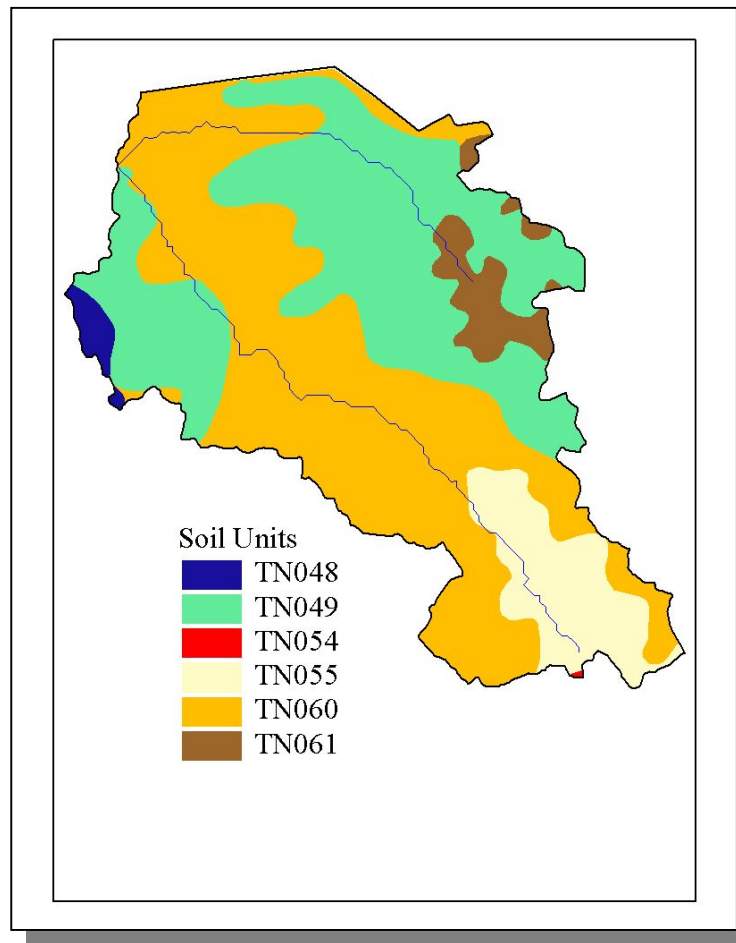


Figure 4-6. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060101.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN048	8.00	B	1.38	5.06	Silty Loam	0.42
TN049	0.00	C	1.30	5.94	Silty Loam	0.34
TN054	0.00	B	3.04	4.84	Loam	0.32
TN055	3.00	C	2.45	5.24	Loam	0.34
TN060	5.00	C	1.30	5.32	Silty Loam	0.39
TN061	50.00	B	1.30	5.09	Silty Loam	0.42

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060101. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Robertson	41,494	51,533	54,433	6.25	2,592	3,219	3,400	31.2
Sumner	103,281	121,936	130,449	6.39	6,599	7,791	8,334	26.3
Total	144,775	173,469	184,882		9,191	11,010	11,734	27.7

Table 4-3. Population Estimates in Subwatershed 051302060101.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Mitchellville	Sumner	198	96	2	94	0
Orlinda	Robertson	476	199	2	194	3
Portland	Sumner	5,165	2,101	1,382	705	14
Total		5,839	2,396	1,386	993	17

Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060101.

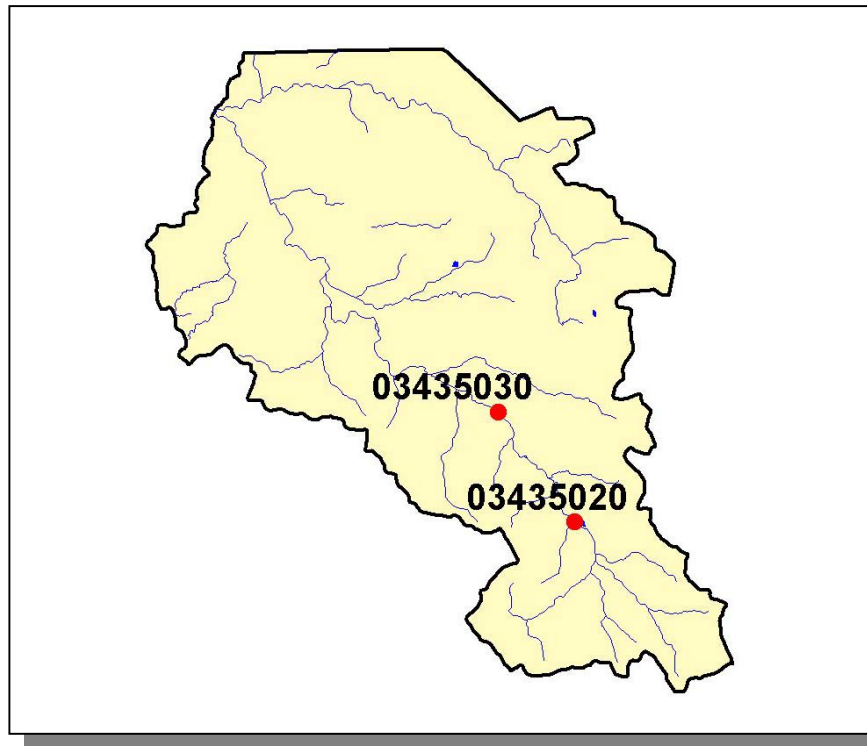


Figure 4-7. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302060101. More information is provided in Appendix IV.

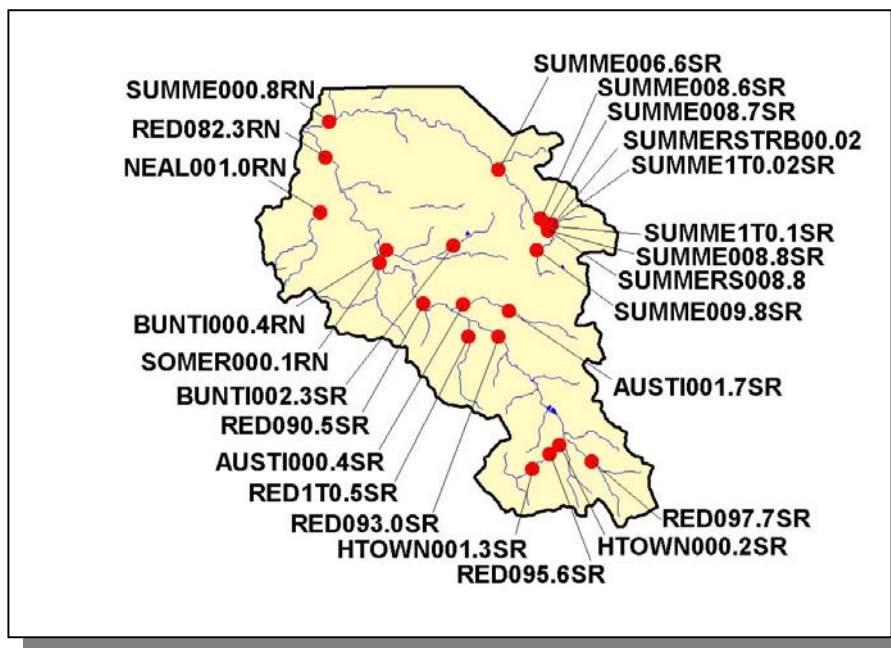


Figure 4-8. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060101. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.i.a. Point Source Contributions.

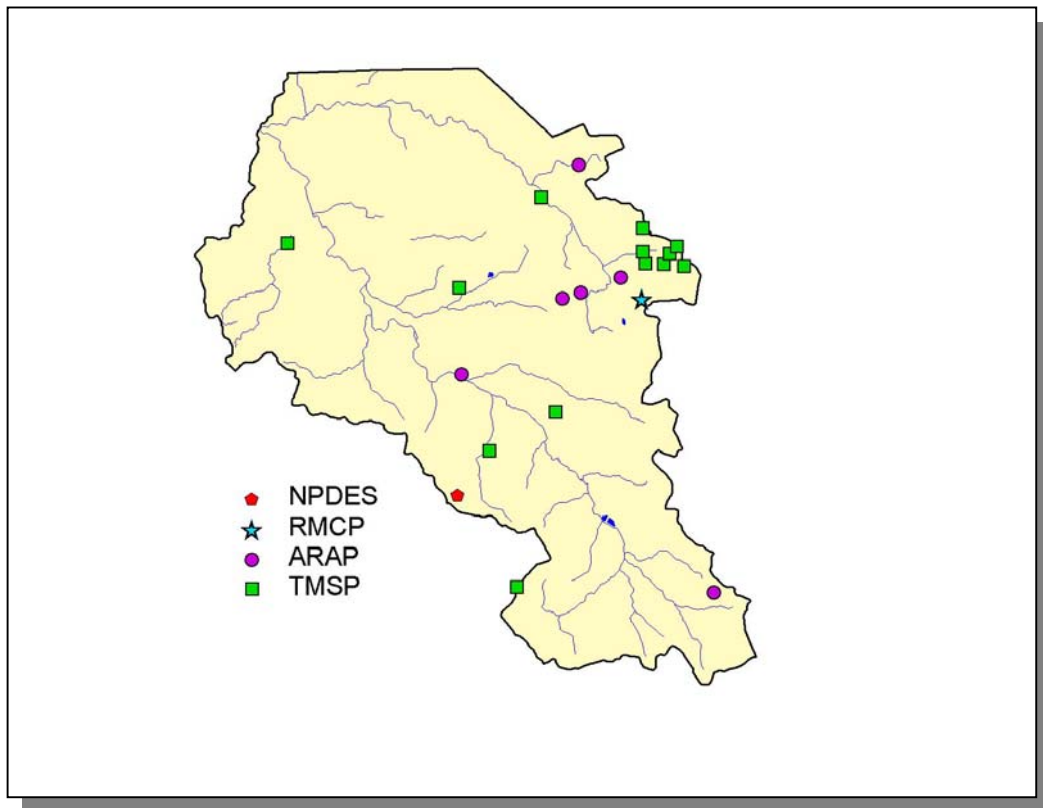


Figure 4-9. Location of Permits Issued in Subwatershed 051302060101. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-10. Location of Active NPDES Sites in Subwatershed 051302060101. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-11. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 051302060101. More information is provided in Appendix IV.

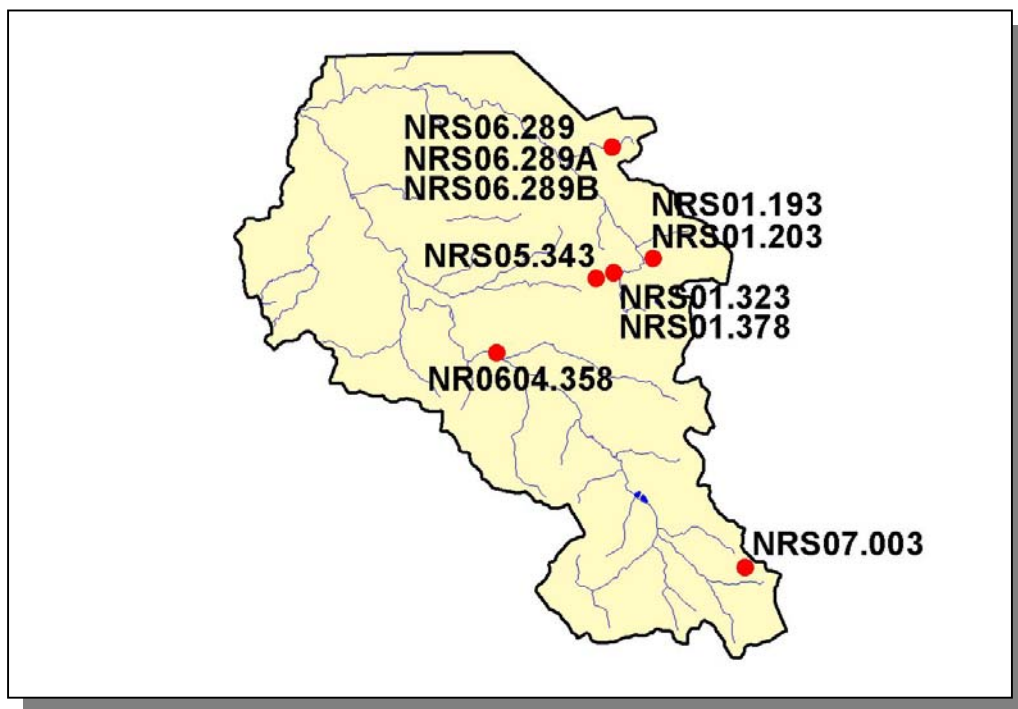


Figure 4-12. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060101. More information is provided in Appendix IV.

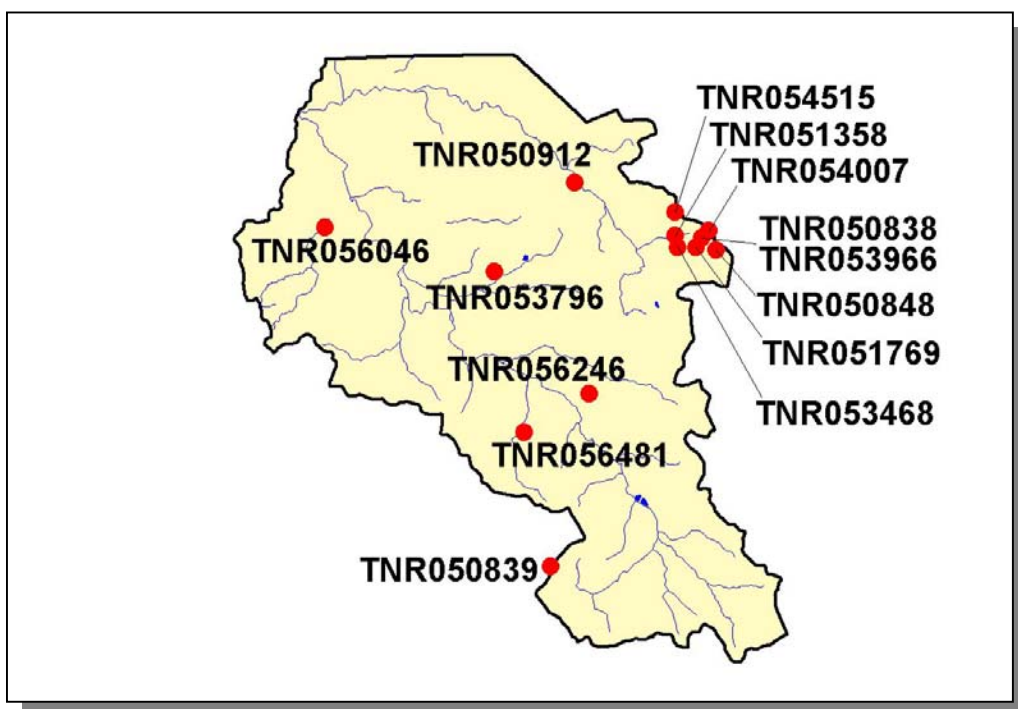


Figure 4-13. Location of TMSP Sites in Subwatershed 051302060101. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.i.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
4,880	10,030	459	10	839	47

Table 4-5. Summary of Livestock Count Estimates in Subwatershed 051302060101.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Robertson	22,502	47,887	3,478	31	6,982	279
Sumner	22,296	45,116	1,515	50	2,500	189

Table 4-6. Summary of Livestock Count Estimates in Robertson and Sumner Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Robertson	53.0	53.0	2.2	9.7
Sumner	88.2	88.2	2.0	6.3

Table 4-7. Forest Acreage and Annual Removal Rates (1987-1994) in Robertson and Sumner Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.56
Grass (Hayland)	0.34
Legumes, Grass (Hayland)	0.37
Legumes (Hayland)	0.40
Grass, Forbs, Legumes (Mixed Pasture)	0.48
Corn (Row Crops)	8.99
Soybeans (Row Crops)	10.69
Tobacco (Row Crops)	11.87
Wheat (Close-Grown Cropland)	1.68
Other Cropland not Planted	14.75
Conservation Reserve Program Lands	0.31
Other Land in Farms	0.27
Farmsteads and Ranch Headquarters	0.62

Table 4-8. Annual Estimated Total Soil Loss in Subwatershed 051302060101.

4.2.A.ii. 051302060102 (Red River).

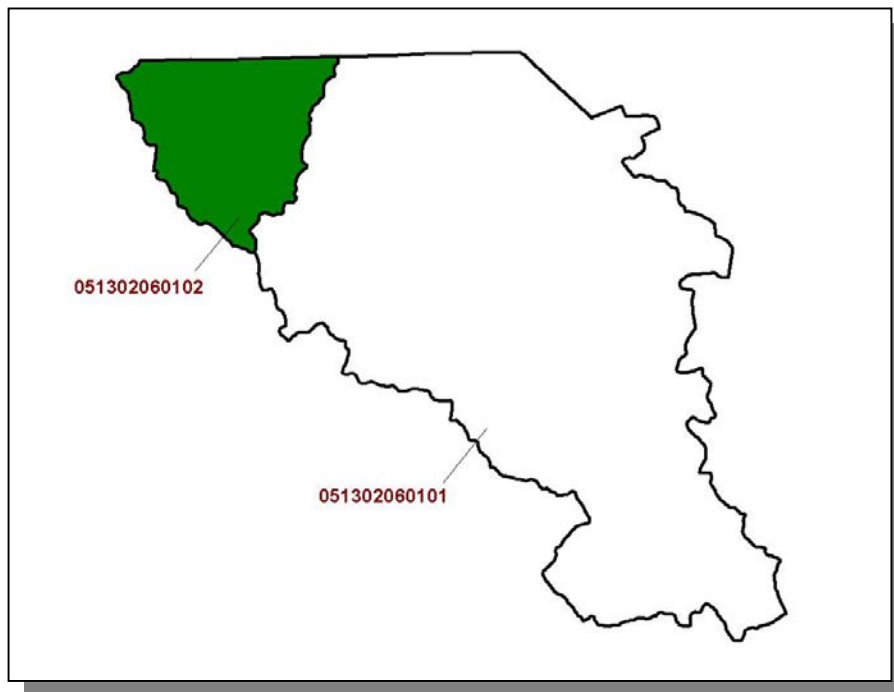


Figure 4-14. Location of Subwatershed 051302060102. All Red River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

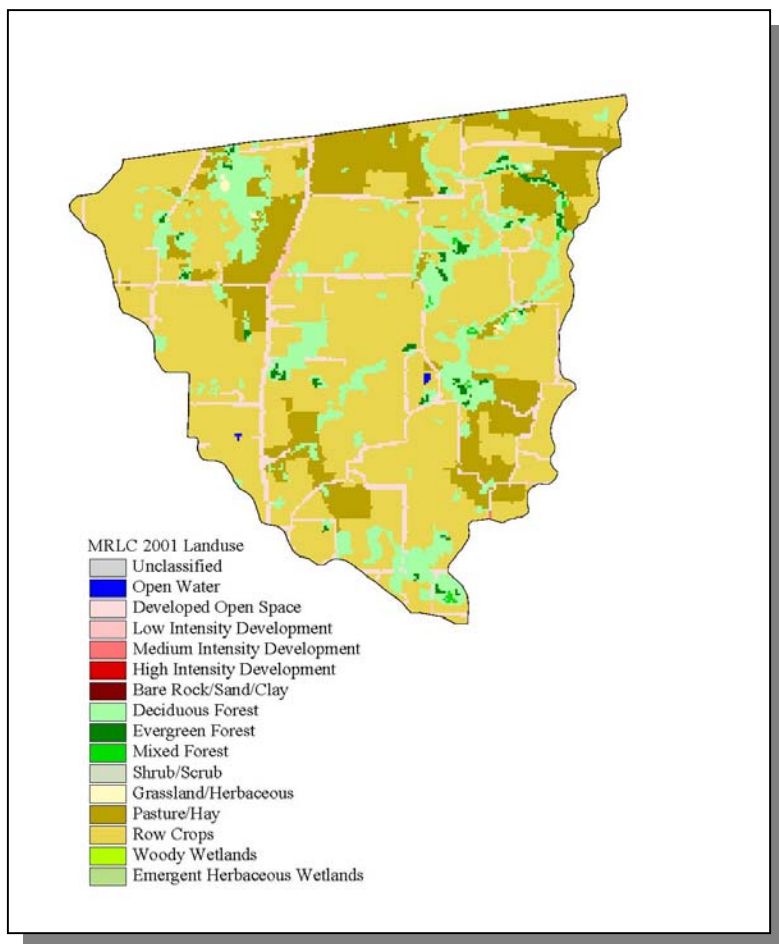


Figure 4-15. Illustration of Land Use Distribution in Subwatershed 051302060102.

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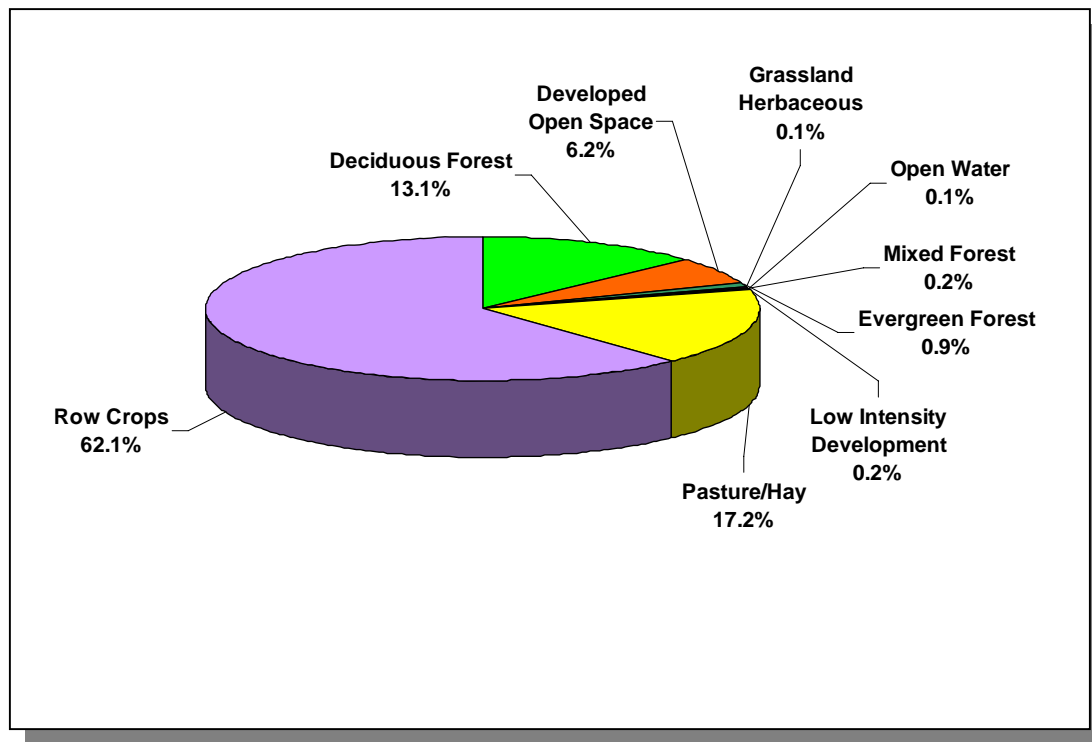


Figure 4-16. Land Use Distribution in Subwatershed 051302060102. More information is provided in Appendix IV.

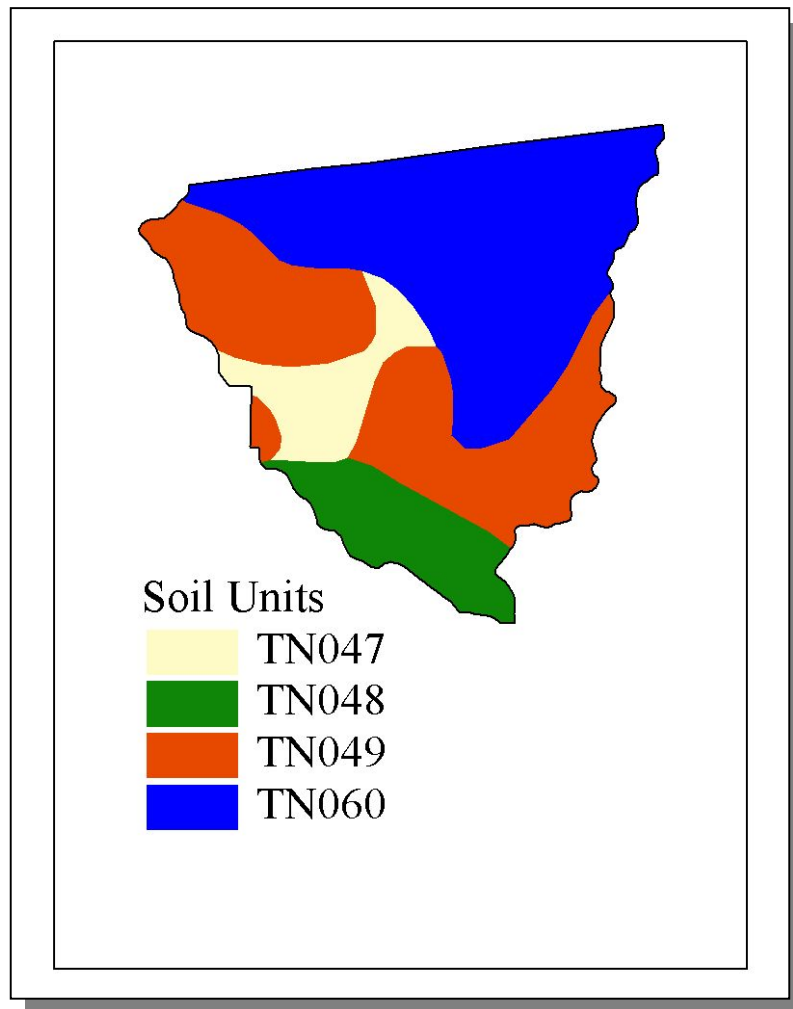


Figure 4-17. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060102.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN047	21.00	C	1.62	5.73	Silty Loam	0.37
TN048	8.00	B	1.38	5.06	Silty Loam	0.42
TN049	0.00	C	1.30	5.94	Silty Loam	0.34
TN060	5.00	C	1.30	5.32	Silty Loam	0.39

Table 4-9. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060102. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Robertson	41,494	51,533	54,433	2.11	875	1,087	1,148	31.2

Table 4-10. Population Estimates in Subwatershed 051302060102.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Orlinda	Robertson	476	199	2	194	3

Table 4-11. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060102.

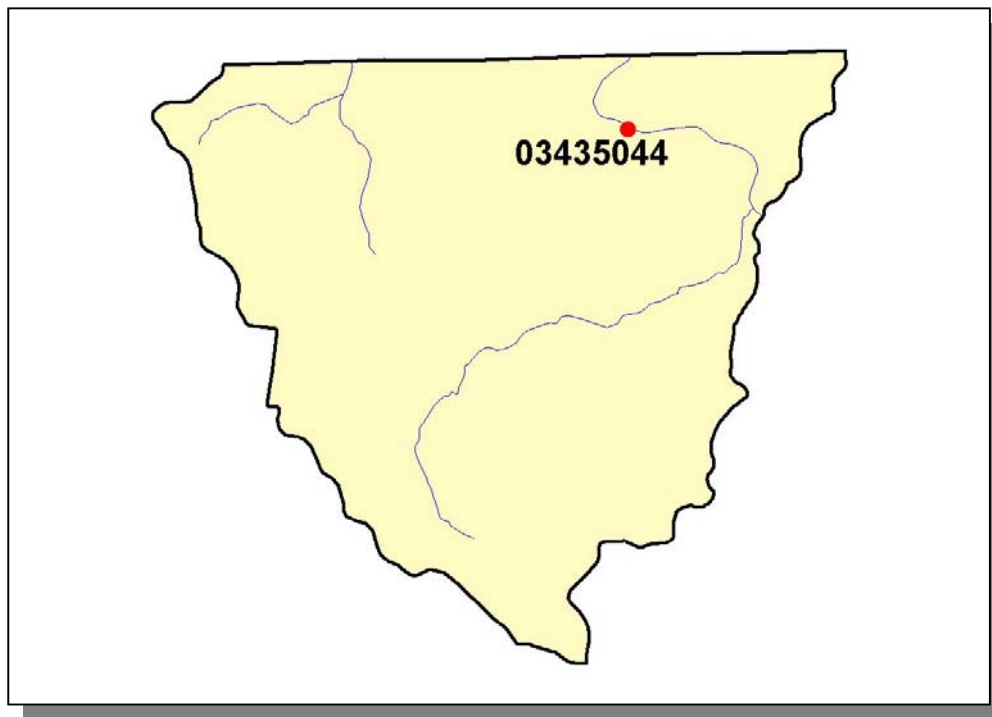


Figure 4-18. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302060102. More information is provided in Appendix IV.

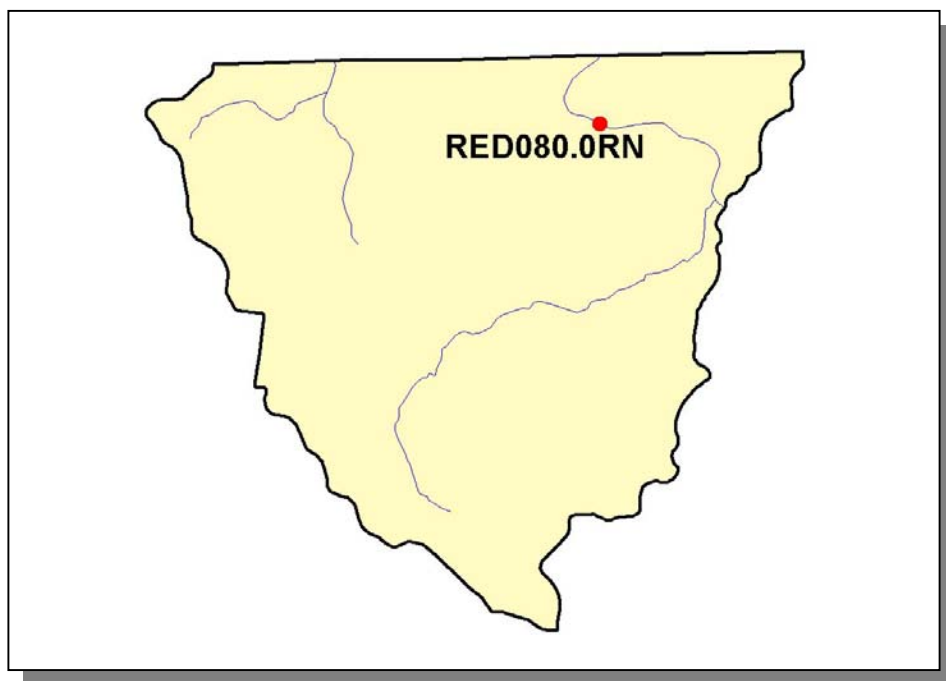


Figure 4-19. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060102. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

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4.2.A.ii.a. Point Source Contributions.

There are no point sources in this subwatershed.

4.2.A.ii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
609	1,297	94	<5	189	8

Table 4-12. Summary of Livestock Count Estimates in Subwatershed 051302060102. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Robertson	22,502	47,887	3,478	31	6,982	279

Table 4-13. Summary of Livestock Count Estimates in Robertson County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Robertson	53.0	53.0	2.2	9.7

Table 4-14. Forest Acreage and Annual Removal Rates (1987-1994) in Robertson County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.67
Grass (Hayland)	0.37
Legumes, Grass (Hayland)	0.53
Legumes (Hayland)	0.73
Grass, Forbs, Legumes (Mixed Pasture)	0.42
Corn (Row Crops)	5.15
Soybeans (Row Crops)	10.03
Wheat (Close-Grown Cropland)	1.68
Tobacco (Row Crops)	11.87
Other Cropland not Planted	9.59
Conservation Reserve Program Lands	0.36
Other Land in Farms	0.27
Farmsteads and Ranch Headquarters	0.95

Table 4-15. Annual Estimated Total Soil Loss in Subwatershed 051302060102.